

## CLAIMS

1                   1. An optical waveguide, comprising a core, said core being  
2 doped with laser-active ions, said core being additionally doped with Cer.

1                   2. An optical waveguide as defined in claim 1, wherein said  
2 doping with Cer constitutes 5-200% of a concentration of the laser-active  
3 ions in mol %.

1                   3. An optical waveguide as defined in claim 1, wherein the  
2 waveguide is formed as a silicate fiber, said core being codoped also for  
3 adjusting a refraction index profile.

1                   4. An optical amplifier, comprising a component which is an  
2 optical waveguide, said optical waveguide including a core, said core being  
3 doped with laser-active ions, said core being additionally doped with Cer.

1                    5. An optical power amplifier, comprising a component which  
2 is an optical waveguide, including a core, said core being doped with laser-  
3 active ions, said core being additionally doped with Cer.

1                    6. A laser, comprising an optical waveguide including a core,  
2 said core being doped with laser-active ions, said core being additionally  
3 doped with Cer.

1                    7. An optical device which is used under radiation loading,  
2 comprising an optical waveguide including a core, said core being doped with  
3 laser-active ions, said core being additionally doped with Cer.